ODS 5400

OBSTRUCTION DATA SHEET

ODS 5400
SPIRIT OF ST.LOUIS AIRPORT
ST. LOUIS, MISSOURI

DIGITIZED FROM

OC 5400
SURVEYED OCTOBER 1988
4TH EDITION

PREPARED AND DISTRIBUTED BY
THE NATIONAL OCEAN SERVICE
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FOR THE FEDERAL AVIATION ADMINISTRATION

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C 55.411/3:

OBSTRUCTION DATA SHEET

The Obstruction Data Sheet (ODS) provides digital obstruction and runway data for use in aircraft arrival and departure planning. This information has been obtained using field survey and photogrammetric methods by the Photogrammetry Branch of the National Ocean Service in accordance with Federal Aviation Regulations Part 77 (FAR-77), "Objects Affecting Navigable Airspace" and FAA Nr. 405, "Specifications - Airport Obstruction Chart and Related Products."

The ODS is a derivative of the Airport Obstruction Chart (OC). The source OC is indicated on the ODS cover. All objects, both obstructing and nonobstructing, that carry an elevation on the OC are listed in the ODS. The ODS (and OC) depict a representation of objects that existed at the time of the OC field survey.

ODS information is arranged as follows:

1. Objects located in FAR-77 approach (including supplemental approaches if present) or primary areas are listed with the associated runway (reference runway). For example, all objects in the Runway 9R approach or primary are listed with Runway 9R. Distances to these objects are computed from both the physical end and threshold of Runway 9R. Objects in the Runway 27L approach or primary are listed with Runway 27L. (Objects in the common 9R/27L primary area are listed with both runways.)

2. All objects not included in "1" above are listed with the Airport Reference Point (ARP).

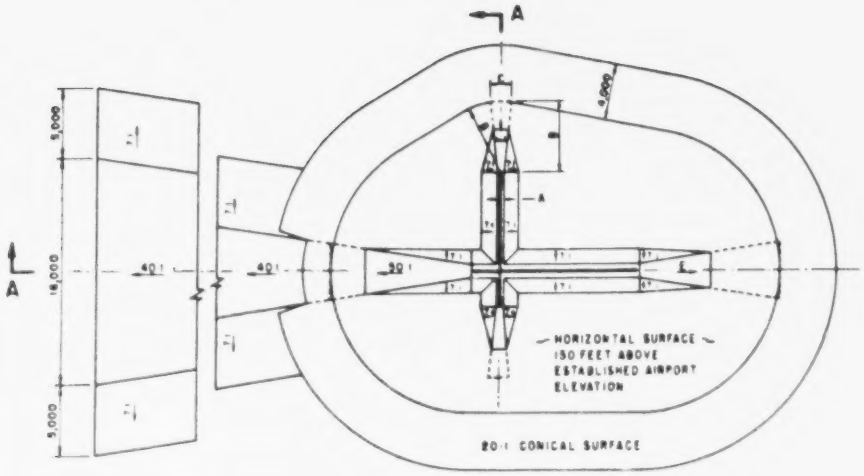
3. Runway configuration and runway lengths, widths, and elevations are presented on the ODS last page.

The FAR-77 imaginary approach surfaces for which the obstruction surveys were performed are coded in the ODS as follows (see footnote 2 on page 3):

A(V) ..... Utility runway - visual approach only
A(NP) .... Utility runway - nonprecision instrument approach
B(V) ..... Nonutility runway - visual approach only
C .... Nonutility runway - nonprecision instrument approach with visibility minimums greater than 3/4 mile
D .... Nonutility runway - nonprecision instrument approach with visibility minimums as low as 3/4 mile
PIR ...... Precision instrument runway
SUPLC ... Supplemental C underlying a B(V)

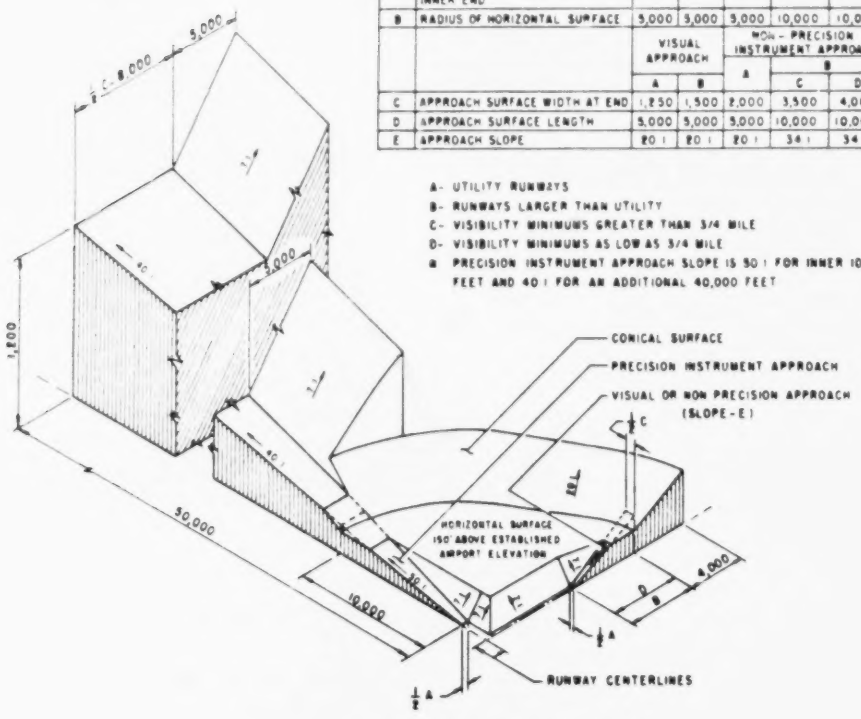
FAR-77 imaginary surface dimensions are defined on page 2 of this report.

Primary surface width is determined by the widest approach at the two approach/primary interfaces for that runway.



DIM	ITEM	DIMENSIONAL STANDARDS (FEET)					
		VISUAL RUNWAY		NON-PRECISION INSTRUMENT RUNWAY			PRECISION INSTRUMENT RUNWAY
		A	B	A	B		
					C	D	
A	WIDTH OF PRIMARY SURFACE AND APPROACH SURFACE WIDTH AT INNER END	250	500	500	500	1,000	1,000
B	RADIUS OF HORIZONTAL SURFACE	5,000	5,000	5,000	10,000	10,000	10,000
		VISUAL APPROACH		NON-PRECISION INSTRUMENT APPROACH			PRECISION INSTRUMENT APPROACH
		A	B	A	B		
					C	D	
C	APPROACH SURFACE WIDTH AT END	1,250	1,500	2,000	3,500	4,000	16,000
D	APPROACH SURFACE LENGTH	5,000	5,000	5,000	10,000	10,000	*
E	APPROACH SLOPE	20:1	20:1	20:1	34:1	34:1	*

A- UTILITY RUNWAYS
B- RUNWAYS LARGER THAN UTILITY
C- VISIBILITY MINIMUMS GREATER THAN 3/4 MILE
D- VISIBILITY MINIMUMS AS LOW AS 3/4 MILE
* PRECISION INSTRUMENT APPROACH SLOPE IS 50:1 FOR INNER 10,000 FEET AND 40:1 FOR AN ADDITIONAL 40,000 FEET



ISOMETRIC VIEW OF SECTION A-A

FAR-77 CIVIL AIRPORT IMAGINARY SURFACES

ANNOTATION OF ODS DATA FORMAT

OC XXXX

AIRPORT ELEVATION XXXX

X[1] X[2] XXXX/XXXX[3] XXXXXX.XXX[4] XXXXXXX.XXX[4] XXXXXXX[5] XXXX/XXXX[6] XXXXXX.XXX[7] XXXXXXX.XXX[7]

OBJECT	LAT	LONG	A[8]	ELEV[9]	AGL[10]	HAR[11]	HAT[11]	HAA[11]	DEND[12]	DTHR[12]	DCLN[12]	PNTR[13]
XXXXXXXXXX	XXXXXX.XXX	XXXXXXX.XXX	XX	XXXX	XXXX	XXX	XXX	XXX	XXXXX	XXXXX	XXXX	XXXX
XXXXXXXXXX	XXXXXX.XXX	XXXXXXX.XXX	XX	XXXX	XXXX	XXX	XXX	XXX	XXXXX	XXXXX	XXXX	XXXX

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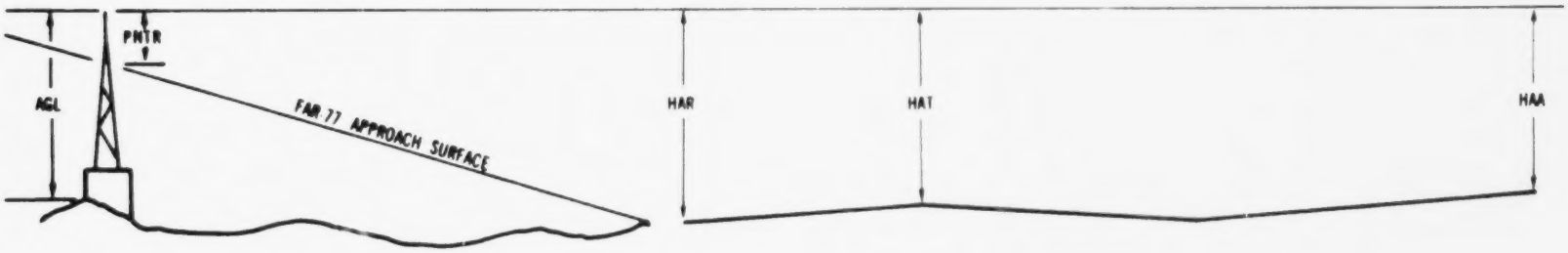
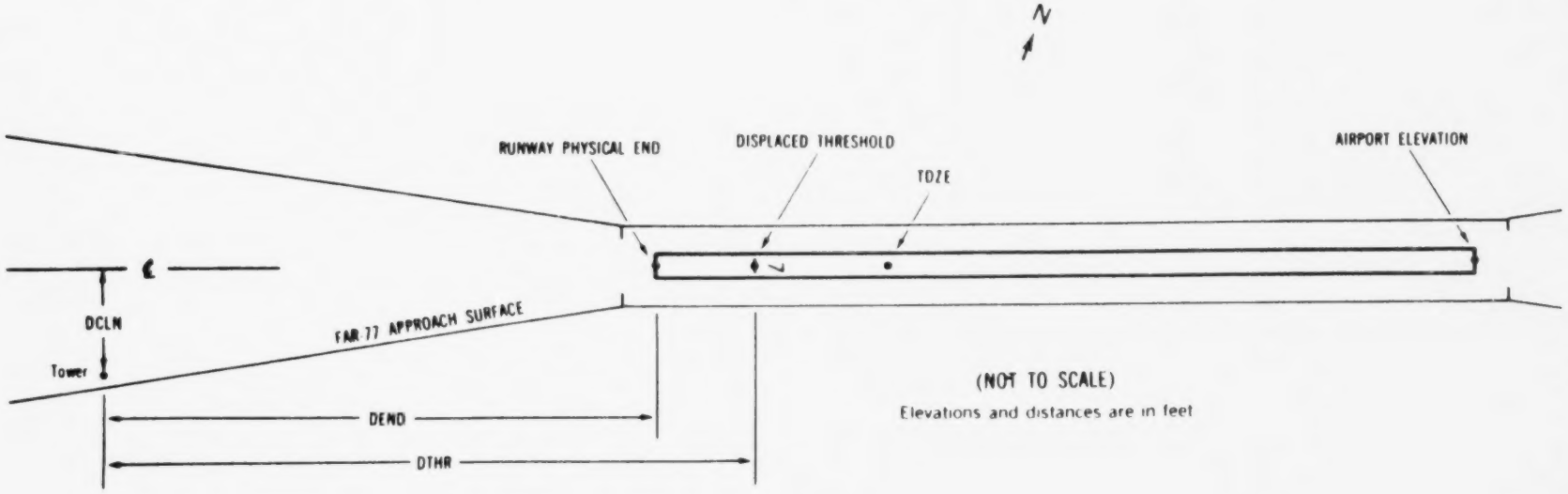




(NOT TO SCALE)

Elevations and distances are in feet

EXPLANATION OF FOOTNOTES

[1] Data block identifier. If a runway number is entered (reference runway), this data block will contain data pertinent to the reference runway and to objects in the FAR-77 approach and primary area of the reference runway. If ARP is entered, this data block will contain the ARP position and data relative to all objects not in an FAR-77 approach or primary area.

[2] For the reference runway, the lowest FAR-77 approach surface for which an obstruction survey was performed. (More than one surface may be surveyed.)

[3] Reference runway approach physical end elevation/touchdown zone elevation

[4] Latitude and longitude of reference runway approach physical end

[5] Reference runway geodetic azimuth reckoned c'ockwise from south

[6] Reference runway displaced threshold elevation/touchdown zone elevation

[7] Latitude and longitude of reference runway displaced threshold

[8] Accuracy Code:

Horizontal	Vertical
1 = 20	A = 2
2 = 40	B = 5
	C = 20

[9] Mean Sea Level (MSL) elevation at top of object. This value includes 15 feet added to noninterstate roads, 17 feet added to interstate roads, and 23 feet added to railroad tracks.

[10] Height above ground level (AGL). AGLs are provided only for those objects appearing on the OC that are equal to, or greater than, 200 feet AGL. AGL accuracy is ±10 feet.

[11] HAA - Height above airport
HAR - Height above reference runway approach physical end
HAT - Height above reference runway touchdown zone elevation

[12] DEND - Distance along reference runway centerline from point perpendicular to object to reference runway approach physical end
DTHR - Distance along reference runway centerline from point perpendicular to object to reference runway threshold
DCLN - Distance left (L) or right (R) of reference runway centerline as observed facing forward in a landing aircraft.

A negative value for DEND or DTHR indicates object is in primary area on roll-out side of zero distance point.

[13] PNTR - Penetration of indicated FAR-77 approach or primary surface (see footnote 2).

OC5400

AIRPORT ELEVATION 463

8L A(V) 463/463 383953.168N 0903950.547W 2580529

OBJECT	LAT	LONG	A	ELEV	AGL	HAR	HAT	HAA	DEND	DTHR	DCLN	PNTR
*** N O O B S T R U C T I O N S ***												

26R A(V) 463/463 384000.916N 09039 3.674W 0780558

OBJECT	LAT	LONG	A	ELEV	AGL	HAR	HAT	HAA	DEND	DTHR	DCLN	PNTR
OL ON POLE	384004.73	0903849.33	1A	494		31	31	31	1193		143R	-19
POLE	384003.48	0903845.41	1A	494		31	31	31	1471		45L	-33
POLE	384006.57	0903843.99	1A	496		33	33	33	1646		238R	-39

8R PIR 461/ 383928.506N 0903928.687W 2580404 461/462 383930.006N 0903919.634W

OBJECT	LAT	LONG	A	ELEV	AGL	HAR	HAT	HAA	DEND	DTHR	DCLN	PNTR
FENCE CORNER	383944.74	0903800.31	1A	466		5	4	3	-7198	-6464	158L	5
ANTENNA ON BUILDING	383945.19	0903801.26	1A	470		9	8	7	-7134	-6400	219L	9
BUSH	383929.23	0903856.91	1A	477		16	15	14	-2482	-1748	449R	16
ROD ON OL GLIDE SLOPE	383929.18	0903906.39	1A	496		35	34	33	-1745	-1011	299R	35
TREE	383926.25	0903919.56	1A	475		14	13	12	-661	73	373R	14
TREE	383931.75	0903931.80	1A	476		15	14	13	174	908	372L	15
ANTENNA ON BUILDING	383925.37	0903931.61	1A	475		14	13	12	292	1026	262R	12
OL ON LOCALIZER	383927.88	0903932.48	1A	469		8	7	6	307	1041	OL	6
TREE	383929.93	0903952.73	1A	509		48	47	46	1836	2570	536L	15
TREE	383906.55	0904027.56	1A	561		100	99	98	5029	5763	1208R	3
TREE	383926.68	0904040.11	1A	580		119	118	117	5581	6315	991L	11

OC5400

AIRPORT ELEVATION 463

26L PIR 461/ 383942.813N 09038 2.290W 0780458 462/462 383942.323N 09038 5.253W

OBJECT	LAT	LONG	A	ELEV	AGL	HAR	HAT	HAA	DEND	DTHR	DCLN	PNTR
TREE	383931.75	0903931.80	1A	476		15	14	13	-7178	-6938	372R	15
TREE	383926.25	0903919.56	1A	475		14	13	12	-6344	-6104	373L	14
ROD ON OL GLIDE SLOPE	383929.18	0903906.39	1A	496		35	34	33	-5260	-5020	299L	35
BUSH	383929.23	0903856.91	1A	477		16	15	14	-4523	-4283	449L	16
ANTENNA ON BUILDING	383945.19	0903801.26	1A	470		9	8	7	129	370	219R	9
FENCE CORNER	383944.74	0903800.31	1A	466		5	4	3	194	434	158R	5
OL ON LOCALIZER	383943.48	0903758.28	1A	466		5	4	3	325	566	0R	2
TREE	383947.36	0903753.40	1A	491		30	29	28	785	1025	305R	18
TREE	383945.17	0903752.81	1A	488		27	26	25	785	1025	78R	15
TREE	383948.85	0903744.22	1A	505		44	43	42	1528	1769	302R	17

OC5400

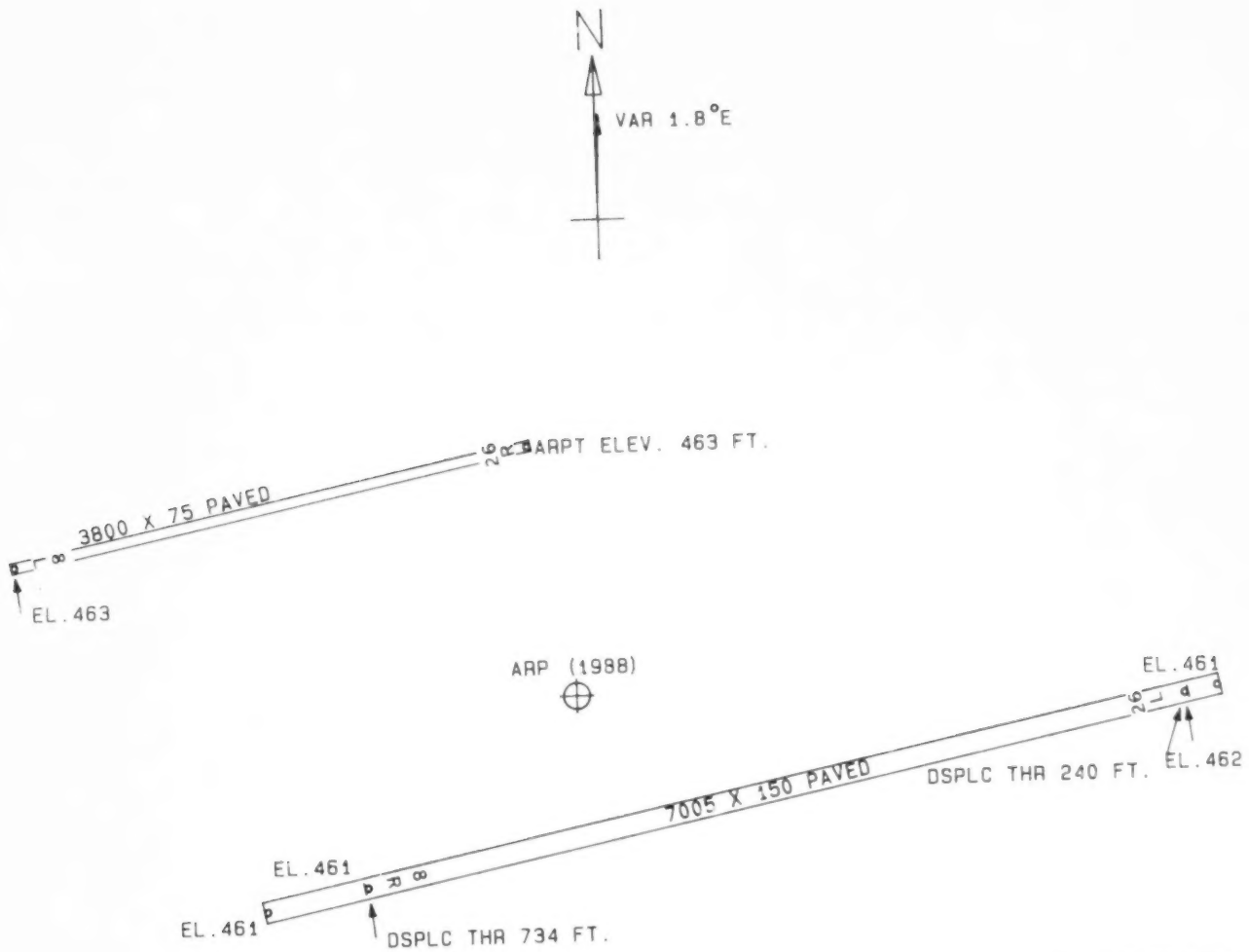
AIRPORT ELEVATION 463

ARP	383943.181N	0903900.127W						
OBJECT	LAT	LONG	A	ELEV	AGL	HAA	MAG BEARING	DISTANCE
OL ON HANGAR	383943.33	0903855.70	1A	500		37	85 45	351
ANTENNA ON OL CONTROL TR	383944.87	0903905.86	1A	581		118	288 47	485
OL ON HANGAR	383940.84	0903906.80	1A	512		49	244 6	580
WINDSOCK	383943.30	0903845.52	1A	486		23	87 35	1159
ANTENNA ON OL BUILDING	383943.64	0903843.56	1A	522		59	86 11	1315
TREE	383922.36	0903900.73	1A	553		90	179 31	2107
TREE	383937.02	0903927.68	1A	505		42	252 17	2273
TREE	383934.12	0903926.86	1A	477		14	244 50	2310
OL ON HANGAR	383946.02	0903830.70	1A	494		31	81 11	2352
LIGHT STANDARD	383950.37	0903928.90	1A	526		63	285 53	2396
LIGHT STANDARD	383949.56	0903933.74	1A	525		62	281 48	2743
TREE	383923.51	0903924.11	1A	483		20	221 54	2753
TREE	383918.69	0903843.66	1B	621		158	150 23	2801
OL HANGAR	383948.69	0903816.27	1A	497		34	79 5	3523
TREE	383926.65	0903810.14	1A	618		155	111 4	4304
ANTENNA	383948.72	0903800.52	1A	487		24	81 26	4761
TREE	383854.75	0903859.34	1B	747		284	177 28	4900
TREE	383855.37	0903840.13	1B	715		252	160 3	5090
CHURCH STEEPLE	383855.15	0903836.93	1B	708		245	157 27	5196
TREE	383951.83	0903754.22	1A	527		64	78 42	5301
POLE	383850.75	0903911.48	1B	681		218	187 50	5380
TREE	383930.34	0903750.71	1A	626		163	101 28	5658
TREE	383849.53	0903925.54	1B	724		261	198 35	5790
TREE	383938.85	0903743.13	1A	537		74	92 18	6123
TREE	383850.47	0903947.65	1B	723		260	213 28	6531
TREE	383954.40	0904022.09	1A	516		53	278 7	6599
POLE	383940.01	0904027.27	1A	547		84	265 33	6920
TREE	383832.38	0903934.53	1B	692		229	199 4	7665
TREE	383828.06	0903835.04	1B	691		228	163 31	7856
TREE	383849.51	0903736.28	1B	668		205	127 25	8586
TREE	383832.82	0903754.03	1B	693		230	141 49	8841
TREE	383822.06	0903815.07	1B	716		253	154 40	8951
POWER POLE	383822.59	0903810.93	1B	726		263	152 37	9039
TREE								

AIRPORT ELEVATION 463

ARP 383943.181N 0903900.127W

OBJECT	LAT	LONG	A	ELEV	AGL	HAA	MAG BEARING	DISTANCE
TREE	383850.07	0904038.12	1B	751		288	233 33	9450
TREE	383820.53	0904000.36	1B	716		253	207 57	9630
TREE	383936.43	0903651.37	1B	626		163	92 1	10236
TREE	383844.04	0903714.57	1B	663		200	123 44	10292
POWER POLE	384119.01	0903946.83	2A	641	202	178	337 18	10378
TREE	383832.79	0904035.40	1B	751		288	224 55	10384
CRANE	384118.52	0903949.98	2A	675	236	212	335 55	10424
CRANE	384120.04	0903950.20	2A	718	279	255	336 9	10573
TREE	383759.04	0903843.05	1B	760		297	170 52	10622
TREE	383824.65	0903730.29	1B	672		209	136 18	10673
TREE	383801.57	0903812.04	1B	751		288	157 50	10964
POWER POLE	383801.45	0903808.71	1B	741		278	156 34	11070
TREE	383809.65	0904021.73	1B	732		269	212 35	11465
TREE	383938.75	0903633.20	1B	618		155	90 23	11664
TREE	383745.61	0903926.05	2C	766		303	188 1	12071
TREE	383846.41	0903644.47	1B	654		191	116 16	12198
TREE	383743.01	0903846.49	2C	761		298	173 7	12205
TREE	383748.23	0903952.40	2C	753		290	197 50	12347
TREE	383852.33	0903629.13	1B	651		188	111 26	13037
TREE	383821.06	0903651.49	1B	682		219	127 20	13160
TREE	383942.20	0903613.92	1B	620		157	88 37	13184
TREE	383819.90	0903651.55	2C	689		226	127 45	13230
TREE	383803.28	0903708.49	2C	698		235	136 58	13438
TREE	383845.61	0904133.96	2C	659		196	242 42	13523
TREE	383841.03	0904132.39	2C	759		296	240 43	13618
TREE	383824.89	0903633.97	2C	675		212	122 31	14043



TOUCHDOWN ZONE RUNWAY	ELEVATION
8L	463
26R	463
8R	462
26L	462

SPIRIT OF ST. LOUIS AIRPORT

ST. LOUIS, MISSOURI

(NOT TO SCALE)